

Amendment to the Specification

Please replace the first paragraph of Example 13 at page 33 in the specification with the following amended paragraph:

-- Example 13: Measurement of adhesion force of recombinant adhesion protein using AFM(atomic force microscopy)

The force-distance curve was obtained using AFM (SPA400; Seiko Instruments), and AFM cantilevers were done according to the technique of Ducker et al. (W. Ducker, Nature, 1991, 353, 239-241) (Fig. 20). The cantilevers used for the present experiments were Olympus oxide-sharpened silicon nitrate probes (Veeco & Seiko Instruments) and the spring constant was 0.57 or 11 N/m. A glass bead (Park Science) of 20 μ m diameter was attached to the tip of the cantilever using an epoxy resin (Vantico), and kept at room temperature for 24 h. The AFM cantilevers with glass bead attached were mounted into the AFM, and the glass bead was immersed in 10 μ l of tyrosinase-treated protein solutions (1.44 mg/ml BSA, Cell-Tak™, MGFP-1 or MGFP-5) (MGFP-5 or MGFP-151) for 10 min. The glass bead was brought into contact with clean glass surface, and a force-distance curve was obtained. ~~(Time required for one cycle of the force-distance curve measurement was 5 s. 삼임)~~ --